



DEPARTMENT OF THE NAVY

NAVAL AIR SYSTEMS COMMAND
NAVAL AIR SYSTEMS COMMAND HEADQUARTERS
WASHINGTON, DC 20361-0001

IN REPLY REFER TO

NAVAIRINST 5400.148
AIR-1002
23 Dec 91

NAVAIR INSTRUCTION 5400.148

From: Commander, Naval Air Systems Command

Subj: DESIGNATION OF THE TACTICAL TRAINING RANGES PROGRAM (PMA248)

Ref: (a) DODD 5000.1 of 23 Feb 91 (NOTAL)
(b) DODI 5000.2 of 23 Feb 91 (NOTAL)
(c) SECNAVINST 5000.1C (NOTAL)
(d) NAVAIRINST 5400.1B (NOTAL)
(e) NAVAIRINST 1611.1G (NOTAL)

Encl: (1) Charter for the Tactical Training Ranges Program Manager Air
(PMA248)

1. Purpose. To continue the Tactical Training Ranges Program (TTRP) as a designated program under direction of the Commander, Naval Air Systems Command (COMNAVAIR); and issue a charter (enclosure (1)) which provides the program's description, scope, operating relationships, organization, resources, and outlines the authority and responsibilities of the program manager (PM).

2. Cancellation. This instruction cancels NAVAIR Notice 5400 of 28 August 1990.

3. Background

a. The TTRP provides overall management, direction, control, integration, execution, and support of fleet tactical training range instrumentation programs.

b. The Secretary of the Navy (SECNAV) advised the Department of the Navy (DON), by memorandum of 31 January 1990, that the Secretary of Defense had approved the Defense Management Report (DMR). SECNAV advised the DON to proceed with implementation on streamlining, following guidance of the DMR. COMNAVAIR assigned a Naval Air Systems Command Headquarters (NAVAIRHQ) Efficiency Review (ER) Team to take necessary actions to implement the DMR. The ER Team recommended the transfer of the TTRP from the Assistant Commander for Fleet Support and Field Activity Management (AIR-04), to the Deputy Commander for Acquisition and Operations (AIR-01). COMNAVAIR approved this recommendation and effective 1 August 1990, the Tactical Training Ranges Division (AIR-423) was transferred from AIR-04 to AIR-01 and elevated to Program Manager Air (PMA) status. This decision was based on the program being predominately an acquisition related function.



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4. Action

a. Effective 1 August 1990, the organizational structure for the TTRP was changed from AIR-423 to PMA248 with CAPT Laurence E. Johnson, USN, continuing to execute program management responsibilities, following the guidance of references (a) through (e), enclosure (1), and other applicable directives issued by higher authority.

b. The PM reports to AIR-01, the program executive acquisition authority, as delegated by COMNAVAIR, for the TTRP. AIR-01 provides program management direction (when applicable and within broad guidelines) and will exercise fitness report responsibilities for the PM.

c. NAVAIRHQ functional organizations will provide full support to the PM in planning, establishing, and supporting the TTRP, following references (c) and (d).

5. Approval. The charter for PMA248 (TTRP) (enclosure (1)) is hereby approved.



R. G. HARRISON
Deputy Commander for
Acquisition and Operations

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CHARTER
FOR THE
TACTICAL TRAINING RANGES PROGRAM (PMA248)

Ref: (a) DODD 5000.1 of 23 Feb 91 (NOTAL)
(b) DODI 5000.2 of 23 Feb 91 (NOTAL)
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(d) NAVAIRINST 5400.1B (NOTAL)
(e) NAVAIRINST 1611.1G (NOTAL)

1. Introduction

a. Purpose. This charter establishes the authority and responsibilities of the program manager (PM) for the Tactical Training Ranges Program (TTRP) (PMA248); and outlines the program's description, scope, operating relationships, organization, and resources.

b. References. The TTRP will be conducted following management principles identified in references (a) through (e), and other applicable directives issued by higher authority.

2. System Description. The TTRP provides overall management, direction, control, integration, execution, and support of fleet tactical training range instrumentation programs.

a. The TTRP is unique in that it includes a number of joint Air and Sea programs. The program is arranged into subsystem categories:

(1) Tactical Air Ranges. Projects associated with the Aircrew Electronic Warfare (EW) Ranges; Tactical Aircrew Combat Training System (TACTS) Ranges; and land based ranges that provide scoring services for aircrew training. The Systems Replacement and Modernization (SRAM) Program is also in this category. The TACTS is a joint Navy and Air Force program.

(2) Sea Combat Ranges. Training range programs for submarines and surface ships and aircrew training conducted in conjunction with submarines and surface ships. There are three fixed fleet ranges that support exercises, primarily of this nature: Pacific Missile Range Facility (PMRF); Atlantic Fleet Weapons Training Facility (AFWTF); and Southern California Offshore Range (SCORE). Also, the Mobile Sea Range (MSR), and future Tactical Combat Training System (TCTS) will support open-ocean battle group training.

(3) Foreign Military Sales (FMS). Foreign export of TTR systems and equipments. Programs and projects are associated with Tactical Air and Sea Combat Range Instrumentation systems.

(4) Global Positioning System (GPS). Requires planning, development, test and evaluation (T&E), and acquisition of GPS range equipment for tri-service use.

b. The TTRP currently includes:

(1) Research, Development, Test and Evaluation, Navy (RDT&EN) programs:

(a) Special Projects

TACTS - Aircraft Instrumentation Subsystem, Internal.

TCTS.

(b) Range Instrumentation Development Projects

Fleet Training Range Telemetry System.

Underwater Tracking Range (UTR) (fixed and mobile).

Range Electronic Warfare Simulators (REWS).

Advanced Weapons Training System.

(2) Approximately 100 other procurement projects in the Weapons Range Support Equipment Program are under: Other Procurement, Navy (OPN); Aircraft Procurement, Navy (APN); Weapons Procurement, Navy (WPN); and Operations and Maintenance, Navy (O&MN).

(a) OPN Programs

Southern California ASW Training Range, Phase II.

AFWTF REWS.

Range Naval Tactical Data System (NTDS).

PMRF Barking Sands Tactical Underwater Range.

AFWTF Microwave System Replacement.

PMRF Range Operations Control System Replacement.

SRAM.

Pinecastle EW Track/Debrief.

Large Area Tracking Range (LATR).

Oceana Instrumentation Expansion.

Cherry Point Mid-Atlantic EW Range II Upgrade.

AFWTF Threat Platform Simulator Upgrade.
AFWTF UTR Computer.
AFWTF Twelve Target Tracking Range System.
AFWTF Surveillance Radar.
AFWTF EW Response Monitor.
Weapons Impact Scoring System Upgrade.
Instrumented Multi-Spectral Cues.
AFWTF UTR Expansion.
TACTS No Drop Mine Scoring.
AFWTF Track Radar.
Fallon Instrumentation Expansion.
PMRF Inner Range EW.
Yuma EW Ranges.
PMRF Range Computer Modernization Program.
Fallon Aircrew EW Training Ranges.
PMRF Communications (COMM) Upgrade.
PMRF Large Area Underwater Range.
SCORE, Southern California COMM
Whidbey Range.
TACTS Data Design Sheet Upgrade.
Yuma TACTS Low Altitude.
PMRF COMM Central Network (CCN) Phase I.
PMRF CCN Phase II.

(b) APN/WPN Programs

TACTS Pods.
MSR Pods.
MSR Target Kits.

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(c) O&MN Programs

Range Instrumentation.

MSR.

3. Scope

a. The scope of TTRP consists of the definition, development, test and evaluation, acquisition, initial support, and readiness improvement of the systems. This includes components, spares, repair parts, peculiar and common support equipment and all supporting technical documentation.

b. Funds listed in the Future Years Defense Plan and assigned to the PM for obligation in the execution of program objectives include the following program elements:

(1) RDT&EN

<u>PROGRAM ELEMENT</u>	<u>PROJECT</u>	<u>DESCRIPTION</u>
0604208N	W0604	Range Instrumentation and System Development.
0204571N	W1998	TCTS.
0204571N	W0431	TACTS.

(2) Procurement

<u>PROGRAM ELEMENT</u>	<u>APPROPRIATION</u>	<u>DESCRIPTION</u>
0204571N	1810N	REWS.
0204571N	1810N	Aircrew EW Training Systems.
0204571N	1810N	Systems Replacement and Modernization Program.
0204571N	1810N	TACTS.
0204571N	1810N	NTDS.
0204571N	1810N	Twelve Target Tracking.
0204571N	1810N	Telemetry.
0204161N	1506N	MSR Pods.
0204161N	1506N	TACTS Pods.
0204161N	1507N	MSR.

(3) O&MN

<u>PROGRAM ELEMENT</u>	<u>APPROPRIATION</u>	<u>DESCRIPTION</u>
0708012N	1804N	Range Instrumentation.
0708012N	1804N	MSR.

c. Development programs under responsibility of the PM are acquisition category (ACAT) IVT (requires Operational Test and Evaluation (OT&E)); and ACAT IVM (does not require OT&E).

d. The Materiel Professional Standing Board approved the TTRP as a major program. Reference (a) tenure requirements of 4 years or until completion of a major program milestone do not apply.

e. The PM's billet (military officer (06)) is equivalent to a major command.

4. Authority and Responsibilities

a. Effective 1 August 1990, CAPT Laurence E. Johnson, USN, was designated PM of PMA248. The PM is the single central executive responsible for managing the program and accomplishing objectives stated in this charter. The PM will be assisted by the Deputy PM who will be in an acting capacity during absence of the PM. The PM has broad directive authority within the scope of the program to plan, direct, control, and use resources not only for approved programs, but also for related in-house and contractor efforts. This includes assigning responsibility, as appropriate, to the various Naval Air Systems Command Headquarters (NAVAIRHQ) functional elements within the overall framework outlined in references (c) and (d). The functions of the Assistant Program Manager for Logistics and the Class Desk resides with PMA248. As the responsible executive, the PM will act on initiatives which affect the program. When actions are required beyond the authority granted in this charter, the PM will refer the action to higher authority with recommendations, including alternatives available.

b. When conflicts exist between program and functional policies, actions directed by the PM will be continued until final resolution.

c. Following reference (e), the PM is authorized to prepare and sign fitness reports for all military personnel (junior to the PM), and execute performance evaluations for civilian personnel assigned full time to the program office. The PM may submit concurrent fitness reports on other military personnel junior to the PM, and working for PMA248 in the functional support groups.

d. When an official above the PM exercises decision authority on program matters, the decision will be documented with a copy to the Deputy Commander for Acquisition and Operations (AIR-01), as official program direction to the PM. The official making the decision will be held responsible, following reference (c).

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e. The PM's primary mission, as executive agent for providing management responsibilities for the TTRP, is to provide to the operating forces fully developed, supportable, and reliable training range instrumentation which will satisfy approved operational training requirements. PMA248 has management responsibilities for the acquisition and support of similar systems for foreign governments, when required, in support of FMS or other defense security assistance programs (DSAP). Management responsibilities include:

(1) Financial management support for TTR instrumentation programs, including budget formulation, justification, defense, and execution of funds.

(2) Timely planning, exploration, development, design approval, and production.

(3) Efforts coordinated with the Navy Ranges and Field Activity Resources Management Division (AIR-421), for major range and test facility base improvement and modernization programs, will be coordinated with the Naval Air Warfare Center, beginning January 1992.

(4) Execute lead systems command (SYSCOM) responsibilities for range instrumentation.

(5) Ensure that range instrumentation systems are standardized to ensure interoperability, and minimize operating and support costs.

5. Limitations of Authority

a. The PM does not have authority to deviate from policy established by higher authority.

b. Communication, action, or inaction in any form which contractors may interpret as direction will be conducted only through an appropriately assigned contracting officer.

6. Relationship to Chartering Authority. The PM receives authority from and is responsible and accountable to the Commander, Naval Air Systems Command (COMNAVAIR) for discharge of COMNAVAIR's responsibility as the Naval Air Systems Command (NAVAIR) Program Executive Officer, following references (a) and (c). By NAVAIR Notice 5400 of 12 September 1991, COMNAVAIR delegated program executive acquisition authority to AIR-01 for NAVAIR assigned programs, which includes the TTRP. The PM reports to AIR-01 and is responsible for the following: ensuring commonality, interoperability, and multi-platform integration for the warfare/mission area; monitoring and evaluating the mission performance of the program throughout its life cycle, making recommendations as appropriate; and advising AIR-01 of program status and progress.

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7. Specific Interface and Operating Relationships. The PM will accomplish the following:

a. Coordinate appropriate interface segments of the program with other program directors, PM's, and SYSCOM's. Coordinate requirements, technical design, and budgetary issues with the Office of the Chief of Naval Operations (OPNAV) staff elements. Coordinate training and deployed system performance with the designated unified and specified commanders and their component commanders, as appropriate.

b. Respond to DSAP requirements. The PM will provide overall initiation, guidance, and coordination of Navy and Marine Corps efforts in logistically supporting and sustaining incountry inventory of TTRP, when applicable. The PM will ensure all DSAP efforts are performed by established procedures. The PM will maintain close liaison with the NAVAIRHQ Defense Security Assistance Division (AIR-103), and the Navy International Program Offices.

c. Maintain active liaison with cognizant members of the NAVAIR staff and Requirements Officers in OPNAV, per the Navy Programming Manual. The PM will keep these individuals informed of status and progress of the program through formal and informal communication.

d. Provide advice, guidance, and assistance when required, to participating organizations on support and test equipment to ensure planning, procurement, and timely deliveries of equipment in support of the TTRP.

e. Keep the Office of Vice Commander (AIR-09), Military Affairs Officer (AIR-09X) informed of military personnel requirements.

f. Report in writing to AIR-01 and other appropriate management officials, any pattern of failures affecting TTRP or the capabilities, components, or related equipment, in order that decisions regarding continued effort to fulfill requirements may be made by appropriate officials to ensure maximum economy and effectiveness.

g. Maintain a continuing review of operational requirements, inventory objectives, and the status of TTRP technology. Ensure timeliness, accuracy, consistency, and compatibility with program plans and funding availability. Based on assessments of cost, schedule, and risk, provide higher authority options for TTRP improvements. When requirements and objectives are incompatible and cannot be achieved, report problems and recommendations for corrective action to AIR-01.

h. Assess periodically the readiness condition of TTRP. When material readiness is unsatisfactory, the PM will initiate corrective actions within the scope of the resources available to the program and coordinate other actions, as necessary, to correct unsatisfactory readiness.

i. Maintain a continuing review of logistic support provided by participating organizations to ensure that such support is compatible with approved program and operating objectives. The PM will also ensure preparation of an integrated logistic support plan.

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j. Establish appropriate requirements for, and monitor the acquisition of, special or additional facilities necessary for support of test, evaluation, installation, operation, and maintenance for TTRP. The PM will ensure that facilities planning factor criteria are developed with Naval Facilities Engineering Command Headquarters (NAVFAC (Code 200)) representatives and published in NAVFAC P-80. The PM will also ensure that requirements for new facilities and modifications to existing facilities are made known to participating organizations in order for planning, programming, and construction schedules to be responsive in support of TTRP.

k. Ensure test and evaluation master plans are prepared as detailed in reference (b). The PM will maintain liaison with cognizant personnel at the NAVAIR test and evaluation activities during developmental test and evaluation, and inform AIR-01 concerning the readiness of the system for operational evaluation and fleet use. The PM will maintain active liaison with cognizant personnel in OPNAV, Operational Test and Evaluation Force, and the Office of the Secretary of Defense, via chain of command, on the operational test and evaluation of PMA248 components. When concurrent evaluations (technical and operational) are conducted, the PM will ensure that NAVAIR's responsibilities for the technical phases are coordinated and accomplished. Contractor test and demonstrations will be performed, following original and follow-on contracts and by other established procedures.

l. Draw on resources of functional organizations within NAVAIRHQ to meet required milestones. When the PM cannot resolve conflicts between program policies and objectives, the problems will be referred to AIR-01. Pending resolution, the PM will continue to execute the program.

m. Direct development and procurement of test and ground support equipment, technical documentation, training equipment and devices, as required, through contractors and appropriate Navy logistic support activities. PMA248 will develop total logistics budgetary and quantitative requirements and direct procurement of systems and spare parts. Requirements of the PM will be given maximum support in development of total command requirements. Concurrence of the PM on program requirements will be obtained prior to budgetary submissions. PMA248, through its Assistant PM for Logistics, and Naval Supply Systems Command, through its inventory control points, will provide Navy follow-on and replenishment support for the items indicated in this subparagraph.

n. Review support provided by participating organizations to ensure that it satisfies approved program and operating objectives. When the PM cannot resolve deficiencies, the problem(s) and recommendations will be submitted to AIR-01.

o. Following the guidance of reference (b), ensure adequacy of program documentation (Navy decision coordinating papers, test and evaluation master plans, program management proposals, and acquisition plans). Establish interface design specifications for TTRP integration.

P. Maintain active liaison, via chain of command, with appropriate personnel in OPNAV, Secretary of the Navy, Joint Chiefs of Staff, Office of the Secretary of Defense, Operational Test and Evaluation Forces, and other agencies on matters concerning approval for service use.

q. Responsible for coordinating, assessing impacts, and ensuring Navy requirements are in development of range user equipment, compatible with GPS. Ensure a Deputy PM for GPS serves as the Navy Deputy PM in the Tri-Service GPS Range Applications Joint Program Office, Eglin Air Force Base, Florida. PMA248 will support planning, development, T&E, and acquisition of GPS range equipment for tri-service use.

8. Program Staffing and Organization. The TTRP Office will be organized by, and function under direction of the PM. The organization and staffing requirements are shown in attachment A of this enclosure.

9. Participating Organizations

a. NAVAIRHQ. All elements of NAVAIRHQ will provide support to the PM, following references (c) and (d). The PM is authorized direct liaison with all NAVAIRHQ divisions and directorates in the exercise of responsibilities. NAVAIRHQ key manpower resources are listed in attachment B of this enclosure.

b. Field Activities. Activities participating in the execution of the program are listed in attachment C of this enclosure, and additional activities will be added as approved by higher authority. Direct liaison with all activities concerned with the program is authorized. Under the PM's guidance, formal work assignments to NAVAIR field activities will be coordinated by the appropriate functional organization(s) in NAVAIRHQ, per references (c) and (d).

c. Non-NAVAIR Organizations. Assignments to activities not under NAVAIRHQ control will be coordinated with cognizant headquarters organizations. When applicable, the PM will establish Memoranda of Agreement (MOA's) and Memoranda of Understanding (MOU's) between COMNAVAIR and organizations not under NAVAIR control. All MOA's/MOU's will be coordinated with AIR-01, via the Plans and Resources Division (AIR-100), and other applicable NAVAIRHQ codes

d. Administrative Support. PMA248 will be administratively supported by NAVAIRHQ. This support will include military personnel services, space allocations, security, graphic arts, communications, and other services. This support will include coordination of civilian personnel services administered by the Consolidated Civilian Personnel Office, Crystal City, Washington, DC.

e. SYSCOM's. SYSCOM's will provide support to the PM, by established procedures, and as appropriate.

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10. Congressional and Public Information. COMNAVAIR is responsible for coordinating and disseminating public information on the program within the Department of the Navy, to legislative bodies, industry, and the general public. This responsibility has been delegated to the NAVAIRHQ Congressional and Public Affairs Office (AIR-07D).

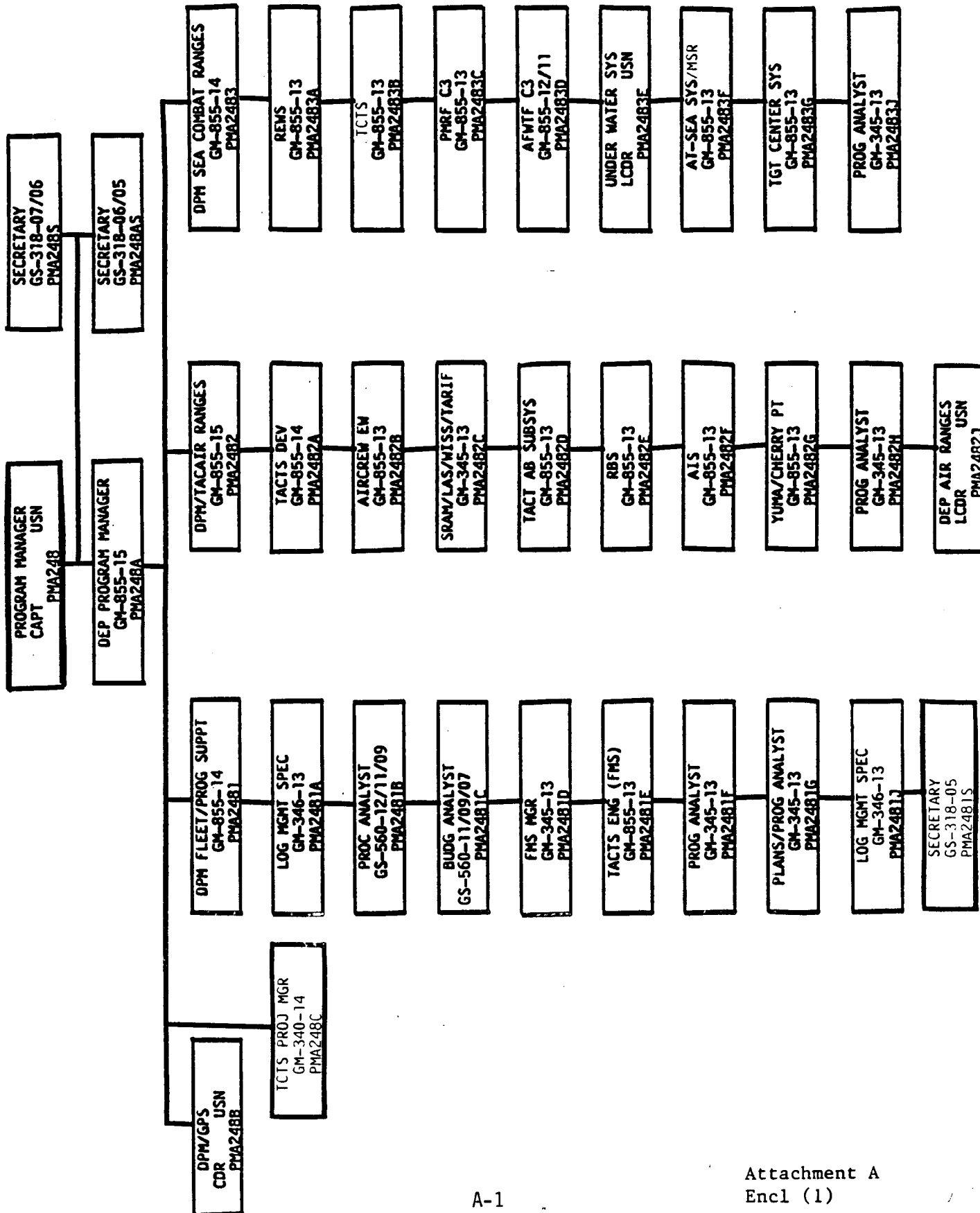
11. Resources Assessment

a. The PM will evaluate and document the effect of proposals to increase or decrease the resources authorized to execute the program and will determine the effect of proposed changes on approved cost, schedules, procurement plans, and performance objectives. The PM's evaluation will be considered by the officials having final decision authority during programming, reprogramming, and budgeting deliberations.

b. The OPNAV sponsor will be informed, via chain of command, in any instance where requirements of the program cannot be completed within the resources and time available.

12. Program Transition or Disestablishment. This program will be reviewed periodically to determine if objectives have been accomplished. If the review indicates the objectives have been completed, or are near completion, the PM will develop a transition plan to ensure a smooth disposition of remaining resources, responsibilities, and functions.

TACTICAL TRAINING RANGES PROGRAM (PMA248)



OTHER KEY MANPOWER RESOURCES

ASSISTANT PROGRAM MANAGERS AND PROGRAM SUPPORT OFFICES

<u>TITLE</u>	<u>CODE</u>
Office of Counsel	AIR-00C
Operations Division	AIR-712
Production Management Division	AIR-114
Test and Evaluation Division	AIR-120
Missiles and Systems Contracts Division	AIR-216
Information Resources Management Division	AIR-713
Logistics Management Division	AIR-410
Logistics and Maintenance Policy Division	AIR-411
Support Systems and Logistics Management Division	AIR-417
*Navy Ranges and Field Activity Resources Management Division	AIR-421
Product Integrity Management Division	AIR-516
Avionics and Computer Resources Division	AIR-546

* This support to be provided by the Naval Air Warfare Center, beginning January 1992.

ACTIVITIES PARTICIPATING IN THE PROGRAM

<u>ACTIVITY</u>	<u>LOCATION</u>	<u>FUNCTION</u>
Naval Avionics Center	Indianapolis, IN	Procurement agent for aircraft instrumentation subsystem, internal, and technical support.
Naval Weapons Support Center	Crane, IN	High power tube depot, target control system, and support for the AN/SPS-48 radar.
Naval Surface Weapons Center	Dahlgren, VA	Safety, hazards of electromagnetic radiation testing, and electromagnetic warfare simulator support.
Naval Air Test Center	Patuxent River, MD	Lead field activity for TACTS, LATR, TCTS, and radar tracking/surveillance. Software support activity for TACTS, configuration control, supervision of prime contractors, production engineering, acceptance testing of new range, and range improvements.
Naval Weapons Center	China Lake, CA	Lead field activity for EW range systems and drone control. EW simulator development and production. Systems software engineering production support, threat and lethality analysis, tactical air range integration facility, and TACTS ground software support activity.

ACTIVITIES PARTICIPATING IN THE PROGRAM (Con.)

<u>ACTIVITY</u>	<u>LOCATION</u>	<u>FUNCTION</u>
Naval Warfare Assessment Center	Corona, CA,	Lead field activity for telemetry and scoring systems. Integrated logistics support, production engineering support, and configuration control.
Naval Training Systems Center	Orlando, FL	TCTS development support.
Naval Air Development Center	Warminster, PA	Lead field activity for control and display systems, Range Computer Modernization Program/AFWTF. Threat and weapons computer simulation development and integration. TACTS software documentation validation.
Pacific Missile Test Center	Point Mugu, CA	Lead field activity for MSR system operations, development, and production support, inservice engineering, laser training, range operations control system replacement, and automated precision identification friend or foe surveillance/communication, PMRF. Laser training systems and PMRF support.

ACTIVITIES PARTICIPATING IN THE PROGRAM (Con.)

<u>ACTIVITY</u>	<u>LOCATION</u>	<u>FUNCTION</u>
Naval Ship Weapons Systems Engineering Station	Port Hueneme, CA	MSR and TCTS development and operations support.
Naval Electronics Systems Engineering Center	San Diego, CA	Lead field activity for microwave systems replacement and radars for AFWTF.
Naval Ocean Systems Center	San Diego, CA	Naval Tactical Data System, TCTS, and Southern California Anti-Submarine Warfare Range program support.
Naval Underwater Systems Center	Newport, RI	Lead field activity for anti-submarine warfare and underwater technology.
Armament Development and Test Center	Eglin Air Force Base, FL	Air Force counterpoint, procurement, engineering support, testing, and staff support.